FLOOD-STAGE REPORT FOR JULY 1941—Continued

[All dates in July unless otherwise specified]

River and station	Flood stage	Above flood stages—dates		Crest	
		From—	To—	Stage	Date
MISSISSIPPI SYSTEM—COD.					
Arkansas Basin					
North Canadian:	*Feet*			*Feet*	
Woodward, Okla.	5	7	7	5.4	7
Canton, Okla.	9	8	8	9.0	8
Yukon, Okla.	8	(2)	(1)	10.5	2
				13.0	9–10
Canadian:					
Canadian, Tex.	5	6	6	6.0	6
		26	26	7.0	26
Union, Okla.	7	26	27	9.0	26
Red Basin					
Sulphur:					
Ringo Crossing, Tex.[5]	20	12	23	28.5	16
Naples, Tex.	22	20	27	25.6	22
WEST GULF OF MEXICO DRAINAGE					
Sabine: Logansport, La.	25	June 30	8	[6] 25.8	[6] 3
Trinity:					
Dallas, Tex.	28	June 11	2	43.0	June 12
		2	4	28.4	3
Trinidad, Tex.	28	June 7	10	45.4	June 19
Long Lake, Tex.	40	June 14	7	46.5	June 22
Liberty, Tex.	24	June 11	24	26.8	11–12

[1] Continued into following month.
[2] Continued from preceding month.
[3] An estimated 1.0 to 1.5 feet of rise due to back water from dam (Santee-Cooper project).
[4] Occasionally above flood stage due to operations of Dam No. 24.
[5] Stages estimated.
[6] No report July 4–6; crest of flood probably about 26.1 on 5th.

FLOOD LOSSES AND SAVINGS FOR 1940

By BENNETT SWENSON

The monetary losses from floods during the year have been estimated at more than $40,000,000 and a total of 60 lives were lost. The savings as the result of the river and flood warning service is reported to have amounted to about 6½ million dollars. The average annual loss for the period 1924 to 1940, inclusive, is about $94,000,000 and the average annual savings nearly $15,000,000. The losses and savings during the year 1940 are itemized by individual river basins in the table below.

The outstanding floods of 1940 were the floods of August in the rivers in southern Virginia, the Carolinas, and eastern Tennessee which resulted from heavy rains accompanying the passage inland of a tropical disturbance. The total losses from these floods have been estimated at about $12,000,000 and 40 lives.

Another tropical disturbance which moved inland over southwestern Louisiana and eastern Texas during August was responsible for severe flooding in that area, with damages amounting to about $6,000,000, mostly to growing crops.

Other important floods occurred in the Sacramento River in February and March with losses estimated at about $8,000,000, and in the small streams of northeastern Nebraska during June where damages amounted to nearly $2,000,000 and five lives were lost.

Estimated flood losses and savings for 1940

River and drainage	Tangible property	Matured crops	Prospective crops	Livestock and other movable farm property	Suspension of business	Total	Lives lost	Reported savings as the result of warnings
ST. LAWRENCE								
Red Cedar River							2	
ATLANTIC SLOPE								
Connecticut River			$50,000		$12,500	$62,500		$22,000
Rivers in southwest New Jersey	$1,000,000					1,000,000	4	
Schuylkill River		$50	50	$100		200		1,250
Susquehanna River	1,279,000		24,375	27,000	126,000	1,456,375		313,500
James River	24,300	5,000	50,000	2,600	9,625	91,525		190,800
Roanoke River	1,045,500	980,000	306,000	202,000	380,000	2,913,500	[1] 4	891,500
Tar River	50,000	10,000	150,000	4,500	10,000	224,500		20,000
Neuse River	10,000	6,000	6,000	2,400	3,000	27,400		15,000
Pee Dee River [2]	3,200					3,200	[1] 4	10,000
Santee River	171,000	58,000	8,200	2,200	33,900	273,300	[1] 1	92,700
Savannah River	1,452,000	20,000		8,000	20,500	1,500,500	3	2,000,000
EAST GULF OF MEXICO								
Apalachicola River				350	6,800	7,150		4,500
Choctowhatchee River	15,000	3,540	300	1,100	6,000	25,940		3,000
Black Warrior-Tombigbee River	206,050		4,685,750	2,000	38,200	4,932,000		99,600
Pearl and Pascagoula Rivers	131,218	80,100	240,500	16,325	63,250	531,393		91,800
MISSISSIPPI SYSTEM								
Upper Mississippi Basin								
Zumbro River (Minn.)			5,000			5,000		
Wisconsin River	5,740	4,280	13,460		13,360	36,840		44,050
Yellow, Volga, and Turkey Rivers in northeast Iowa	83,570	27,300	40,250	3,855	2,500	157,475		
Missouri Basin								
Rivers in Montana	2,700					2,700		
Streams in northeast Nebraska	500,000	100,000	1,000,000	100,000	13,000	1,713,000	5	30,000
Floyd River	12,000					12,000		
Kansas River	13,650		17,500			31,150		
Ohio Basin								
Allegheny River	[3] 201,300					201,300		17,000
Monongahela River	700					700		10,000
Scioto River	26,000		16,500			42,500		
New-Kanawha River	1,660,500	[4] 1,195,000				[5] 2,855,500	[1] 9	
Green River	2,350		17,800		15,000	35,150		33,000
East Fork of White River	26,600	38,000	77,500	1,000	4,100	147,200		52,000
West Fork of White River	1,000		10,700		3,250	14,950		9,100
White River (Ind.)	500		22,000		15,000	37,500		4,500
Wabash River	15,500	450	15,000		2,600	33,550		26,000
Watauga River	[6] 1,102,800		[6] 82,200		100,000	1,285,000	[1] 13	5,000
Holston River	[6] 46,100		[6] 49,900			96,000		10,000
French Broad River	[6] 1,880,100		470,900			2,351,000		65,000
Little Tennessee River	[6] 482,000		[6] 38,000			520,000	[1] 4	
Tennessee River	[6] 2,200		[6] 31,800			34,000		6,000
Clinch River	[6] 83,000		[6] 14,000			97,000	[1] 2	7,000
Ohio River	63,600	500	115,075	6,800	139,950	325,925		110,000

See footnotes at end of table.

Estimated flood losses and savings for 1940—Continued

River and drainage	Tangible property	Matured crops	Prospective crops	Livestock and other movable farm property	Suspension of business	Total	Lives lost	Reported savings as the result of warnings
MISSISSIPPI SYSTEM—continued								
White Basin								
Black River (Ark.)			$1,000			$1,000		
White River (Ark.)			10,500			10,500		
Arkansas Basin								
Chisholm Creek (Kans.)	$4,000					4,000		
North Canadian River	16,200	$4,500	7,300		$500	28,500		
Canadian River (N. Mex.)	70,000	10,000	8,000			88,000		
Arkansas River	1,120,000	10,000	45,000	$25,000		1,200,000	2	
Red Basin								
Sulphur River	1,500	800	500	1,000	7,000	10,800		$11,000
Ouachita River		500			500	1,000		1,000
WEST GULF OF MEXICO								
Rivers in southwest Louisiana	900,000		4,901,000	644,000		6,445,000		
Trinity River	12,000		3,750			15,750		61,000
Colorado River	154,000	70,000	8,000	2,000		234,000		23,000
Guadalupe River	62,500	98,500	16,000	8,500	1,500	187,000		46,500
Lavaca River	200,000	140,000	315,000	85,000		740,000	7	
GULF OF CALIFORNIA								
Colorado Basin								
Little Colorado River	3,000	1,500		500		5,000		
Salt River	50,000					50,000		
Gila River	75,000				50,000	125,000		
PACIFIC SLOPE								
Sacramento River	3,054,940	683,020	3,100,930	639,440	248,180	7,726,510		2,185,000
Eel River	470,000	500	23,000	6,000	10,000	509,500		13,000
Total	17,792,318	3,547,540	15,998,740	1,791,670	1,336,215	40,466,483	60	6,524,800

[1] From records furnished by the American Red Cross.
[2] Incomplete; severe floods occurred in August in the Yadkin River where 4 lives were lost, but figures on losses are not available.
[3] $200,000 in Cataraugus County, N. Y., in June.
[4] Includes all agricultural losses.
[5] From records furnished by United States engineers.
[6] From records furnished by Tennessee Valley Authority.

CLIMATOLOGICAL DATA

CONDENSED CLIMATOLOGICAL SUMMARY OF TEMPERATURE AND PRECIPITATION BY SECTIONS

[For description of tables and charts, see REVIEW, January, p. 31]

In the following table are given for the various sections of the climatological service of the Weather Bureau the monthly average temperature and total rainfall; the stations reporting the highest and lowest temperatures, with dates of occurrence; the stations reporting the greatest and least total precipitation; and other data as indicated by the several headings.

The mean temperature for each section, the highest and lowest temperatures, the average precipitation, and the greatest and least monthly amounts are found by using all trustworthy records available.

The mean departures from normal temperatures and precipitation are based only on records from stations that have 10 or more years of observations. Of course, the number of such records is smaller than the total number of stations.

Section	Temperature								Precipitation					
			Monthly extremes								Greatest monthly		Least monthly	
	Section average	Departure from the normal	Station	Highest	Date	Station	Lowest	Date	Section average	Departure from the normal	Station	Amount	Station	Amount
	°F.	°F.		°F.			°F.		*In.*	*In.*		*In.*		*In.*
Alabama	80.6	+.3	2 stations	100	[1] 30	Madison	57	8	7.97	+2.61	Mobile Airport	16.54	Union Springs	2.94
Arizonia	79.0	−1.2	Mohawk	117	[1] 15	Alpine	29	[1] 2	1.64	−.54	Ruby	6.45	Welton	.05
Arkansas	81.2	+.7	Corning	105	2	3 stations	53	[1] 5	4.82	+1.00	Pine Bluff	9.23	Rogers	.80
California	73.4	−.2	2 stations	124	22	Tamarack	28	27	.08	+.01	Happy Camp	1.92	136 stations	.00
Colorado	65.6	−1.6	Sedgwick	104	22	Pearl	23	11	2.31	+.14	Idalia	7.87	2 stations	.26
Florida	81.3	.0	2 stations	101	[1] 9	Mason	63	24	10.02	+2.70	West Palm Beach Airport.	17.74	Key West	3.11
Georgia	80.4	+.4	Eastman	102	31	Blairsville	57	18	7.18	+1.38	Cornelia	14.66	Fort Valley	2.87
Idaho	69.3	+1.2	Lewiston	112	17	Pelton's Ranch	24	31	.73	+.05	Salmon	2.55	Grand View	T
Illinois	77.0	+.5	Mount Vernon	105	30	Sycamore	44	4	2.75	−.49	Harrisburg	6.48	Chester	.70
Indiana	76.4	+.7	Shoals	108	1	4 stations	42	20	2.54	−.78	Cypress	7.48	Kentland	.28
Iowa	75.1	+.4	5 stations	106	[1] 24	Decorah	45	[1] 13	2.24	−1.41	Keosauqua	5.54	New Hampton	.50
Kansas	79.0	−.2	Clay Center	110	22	St. Francis	51	[1] 11	3.05	−.08	Colby	11.04	Medora	.49
Kentucky	76.5	−.6	Earlington	106	2	Farmers	51	21	5.51	+1.32	Williamsburg	13.33	Lovelaceville	2.05
Louisiana	82.0	+.2	Winnfield	102	9	2 stations	61	5	8.04	+1.84	Paradis (near)	14.64	Monroe	3.20
Maryland-Delaware	75.4	+.2	Dundalk, Md	104	28	do	42	[1] 9	5.27	+.94	Solomons, Md	9.22	Chewsville, Md	2.32

See footnotes at end of table.